

CUMULATIVE INDEXES

CONTRIBUTING AUTHORS, VOLUMES 11-19

A

Abraham WC, 19:437-62
Allendoerfer KL, 17:185-218
Amara SG, 16:73-93
Andersen RA, 12:377-403
Anderson DJ, 16:129-58
Arbas EA, 14:9-38
Armstrong RC, 16:17-29
Ashcroft FM, 11:97-118
Ashley CT Jr, 18:77-99
Atkeson CG, 12:157-83

B

Bandelow CE, 16:565-95
Banker G, 17:267-310
Barchi RL, 11:455-95
Barde Y-A, 19:289-317
Bargmann CI, 16:47-71
Barlow H, 13:15-24
Barres BA, 13:441-74
Bate M, 19:545-75
Baylor DA, 12:289-327
Bear MF, 19:437-62
Bellugi U, 13:283-307
Bernard CCA, 17:247-65
Biel M, 17:399-418
Bina KG, 13:387-401
Bloom GS, 14:59-92
Borelli E, 11:353-72
Bothwell M, 18:223-53
Bowe MA, 18:443-62
Brainard MS, 18:19-43
Broadie K, 19:545-75
Brodin L, 14:169-99
Brown TH, 13:475-511
Brunkun WJ, 12:205-25
Buck LB, 19:517-44
Bullock TH, 16:1-15

C

Callaway EM, 15:31-56
Campos-Ortega JA, 14:399-420
Cannon SC, 19:141-64
Caramazza A, 11:395-421
Caron MG, 12:67-83; 16:299-321
Carr CE, 16:223-43
Cawthon R, 16:183-205
Cepko CL, 12:47-65
Chambers KC, 13:373-85
Chiba A, 19:545-75
Chiu C-YP, 16:159-82

C

Choi DW, 13:171-82
Christie BR, 19:165-86
Chun LLY, 13:441-74
Ciaranello AL, 18:101-28
Ciaranelli RD, 18:101-28
Cinelli AR, 15:321-51
Clapham DE, 17:441-64
Cleveland DW, 19:187-217
Cline HT, 13:129-54
Colamarino SA, 18:497-529
Colbert CM, 19:165-86
Connor JA, 18:319-57

Constantine-Paton M, 13:129-54
Corey DP, 13:441-74
Corwin JT, 14:301-33

Cotman CW, 11:61-80
Craig AM, 17:267-310
Crenshaw EB III, 11:353-72
Curran T, 14:421-51

D

Damasio AR, 13:89-109
Damasio H, 13:89-109
Davies AM, 13:61-73
Davis M, 15:353-75
Daw NW, 12:205-25; 16:207-22
DeArmond SJ, 17:311-39
Debaki E, 13:129-54
Deckwerth TL, 16:31-46
DeLuca NA, 19:265-87
Desimone R, 18:193-222
Dethier VG, 13:1-13
Dodd J, 13:227-55
Douglas R, 18:255-81
du Lac S, 18:409-41
Dudai Y, 11:537-63
Duncan J, 18:193-222

E

Eipper BA, 15:57-85
Eisen JS, 17:1-30
Elfvin L-G, 16:471-507
Emeson RB, 19:27-52
Evans RM, 11:353-72

F

Fallon JR, 18:443-62
Fawcett JW, 11:289-327; 13:43-60
Feng TP, 11:1-12
Fernald RD, 15:1-29

G

ffrench-Constant C, 12:517-34
Fields HL, 14:219-45
Fiez JA, 16:509-30
Finch CE, 13:75-87
Fink DJ, 19:265-87
Fischbeck KH, 19:79-107
Fisher LJ, 18:159-92
Flander M, 15:167-91
Flockerzi V, 17:399-418
Fox K, 16:207-22
Froehner SC, 16:347-68

H

Gage FH, 18:159-92
Ganong AH, 11:61-80
Garber DL, 15:193-225
Georgopoulos AP, 14:361-77
Gerfen CR, 15:285-320
Getting PA, 12:185-204
Gingrich JA, 16:299-321
Glass JD, 19:1-26
Glonioso JC, 19:265-87
Gluck MA, 16:667-706
Goins WF, 19:265-87
Goldman-Rakic PS, 11:137-56
Goodkin HG, 15:403-42
Goodman CS, 19:341-77
Goodman RH, 13:111-27
Granger R, 16:667-706
Gray CM, 18:555-86
Greenberg ME, 19:463-89
Grillner S, 14:169-99
Grote E, 16:95-127

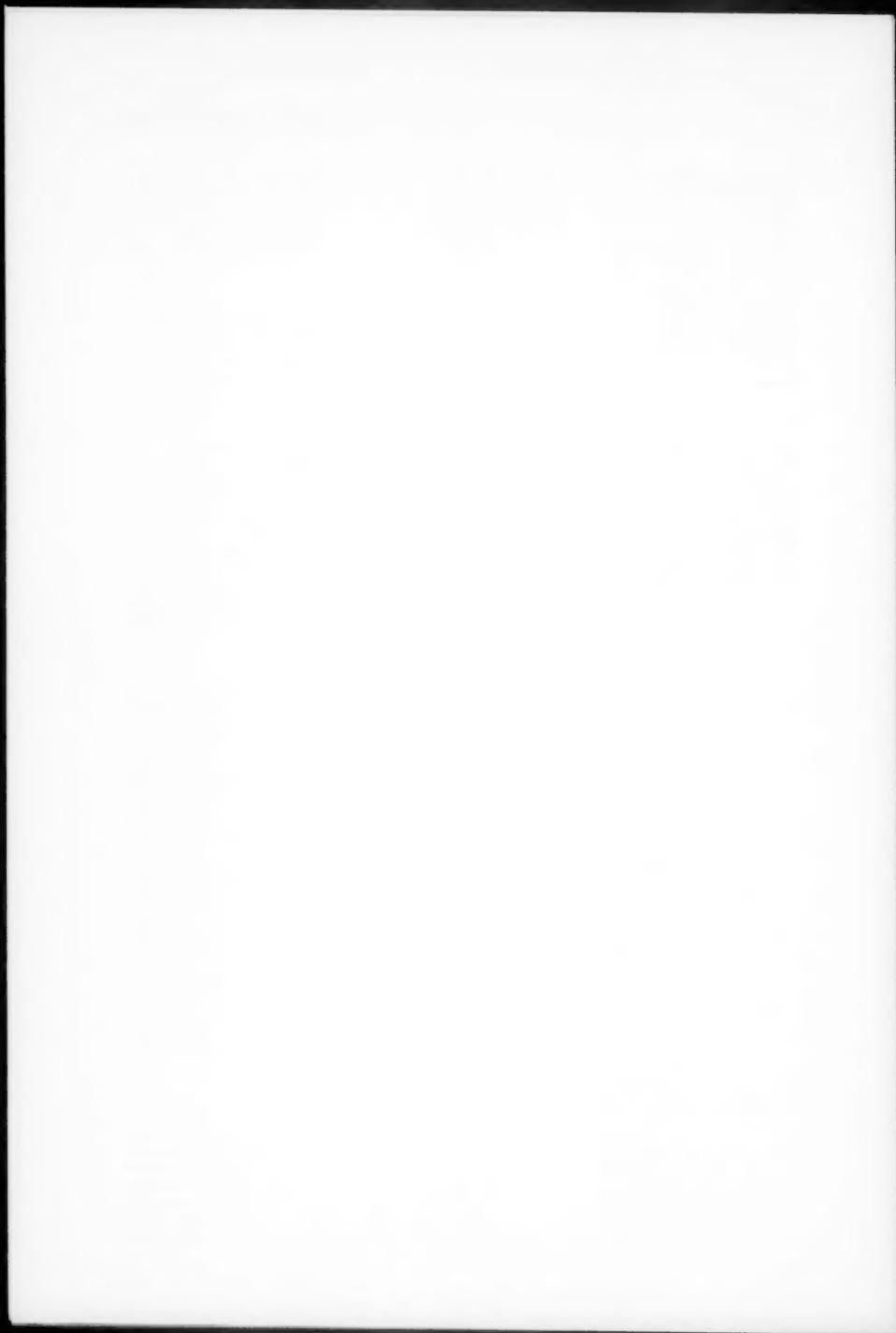
I

Hall JC, 11:373-93
Hamburger V, 12:1-12
Harris K, 17:341-71
Harris WA, 13:155-69
Harris-Warwick RM, 14:39-57
Hasan Z, 11:199-223
Hatten ME, 18:385-408
Hawkins RD, 16:625-65
Heiligenberg W, 14:247-67
Heinemann S, 17:31-108
Heinricher MM, 14:219-45
Heintz N, 18:385-408
Herrup K, 11:423-53
Hess P, 13:337-56
Heyman R, 11:353-72
Highstein SM, 17:465-88

634 CONTRIBUTING AUTHORS

- Hökfelt T, 16:471-507
 Hofmann F, 17:399-418
 Hollmann M, 17:31-108
 Holt CE, 13:155-69
 Hopkins CD, 11:497-535
 Housman DE, 14:503-29
 Hoy RR, 12:355-75
 Hsiao SS, 15:227-50
 Hubel DH, 14:1-8
 Hynes MA, 13:227-55
- I
 Ikenaka K, 14:201-17
 Ip NY, 19:491-515
 Ito M, 12:85-102
- J
 Jackson H, 12:205-14
 Jahn R, 17:216-46
 Jan YN, 14:399-420
 Jessell TM, 13:227-55
 Johnson EM Jr, 16:31-46
 Johnson KO, 15:227-50
 Johnson RT, 19:1-26
 Johnston D, 19:165-86
 Julius D, 14:335-60
- K
 Kaas JH, 14:137-67
 Kairiss EW, 13:475-511
 Kandel ER, 16:625-65
 Kapfhammer JP, 16:565-95
 Kater SB, 17:341-71
 Katz L, 15:31-56
 Kauer JS, 15:321-51
 Keating JG, 15:403-42
 Keenan CL, 13:475-511
 Kelley DB, 11:225-51
 Kelly RB, 16:95-127
 Keshishian H, 19:545-75
 Keynes R, 13:43-60; 17:109-32
 Kimmel CB, 16:707-32
 Kintner C, 15:251-84
 Klimes ES, 13:283-307
 Knudsen EL, 18:19-43
 Kobilka B, 15:87-114
 Kopin II, 11:81-96
 Krumlauf R, 17:109-32
 Krupa DJ, 17:519-49
 Kuhar MJ, 16:73-93
- L
 Land MF, 15:1-29
 Landis DMD, 17:133-51
 Lansner A, 14:169-99
 Lee MK, 19:187-217
 Lefkowitz RJ, 12:67-83
 Levine M, 13:195-225
 Levine RB, 13:183-94
 Levitan IB, 11:119-36
- Lewin GR, 19:289-317
 Linden DJ, 18:319-57
 Lindh B, 16:471-507
 Linial M, 14:93-122
 Linaker R, 13:257-81
 Lira SA, 11:353-72
 Lisberger SG, 18:409-41
 Loeb GE, 13:357-71
 Logothetis NK, 19:577-621
 Lumsden A, 13:61-73
 Lund JS, 11:253-88
- M
 Macagno E, 13:195-225
 Macdonald RL, 17:569-602
 Madison DV, 14:379-97; 17:153-83
 Magee JC, 19:165-86
 Maggio JE, 11:13-28
 Mahowald M, 18:255-81
 Mains RE, 15:57-85
 Malenka RC, 14:379-97
 Malicki DM, 18:283-317
 Mandel G, 16:323-45
 Marde E, 14:39-57
 Markey SP, 11:81-96
 Mason P, 14:219-45
 Matthews G, 19:219-33
 Matus A, 11:29-44
 Maunsell JHR, 16:369-402
 Mays LE, 13:309-36
 McConnell SK, 14:269-300
 McGaugh JL, 12:255-87
 McKinnon D, 16:323-45
 Mead C, 18:255-81
 Meinertzhagen IA, 14:9-38
 Menzel R, 13:403-14; 19:379-404
 Merigan WH, 16:369-402
 Mikoshiba K, 14:201-17
 Miller A, 17:247-65
 Miller RH, 12:517-34
 Miyashita Y, 16:465-63
 Monaghan DT, 11:61-80
 Montminy MR, 16:17-29
 Morgan DG, 13:75-87
 Morgan JI, 14:421-51
 Moscovakis AK, 17:465-88
 Müller U, 19:379-404
- N
 Nakanishi S, 14:123-36
 Nestler EJ, 18:463-95
 Nicoll RA, 14:379-97
 Nishizuka Y, 17:551-67
- O
 Ochsner KN, 16:159-82
 O'Dowd BF, 12:67-83
 Okano H, 14:201-17
 Okserberg JR, 17:247-65
 O'Leary DDM, 17:419-39
- Olsen RW, 17:569-602
 Oppenheim RW, 14:453-501
- P
 Parkinson D, 12:205-25
 Parks TN, 12:405-14
 Paulson HL, 19:79-107
 Pearson KG, 16:265-97
 Peroutka SJ, 11:45-60
 Petersen SE, 13:25-42; 16:509-30
 Poizner H, 13:283-307
 Posner MI, 13:25-42
 Prusiner SB, 17:311-39
- R
 Raff MC, 12:517-34
 Ranganathan R, 18:283-317
 Ray J, 18:159-92
 Raymond JL, 18:409-41
 Recknagel GN Jr, 16:597-623
 Reichardt LF, 14:531-70
 Rescorla RA, 11:329-52
 Rittenhouse AR, 12:415-61
 Robinson DA, 12:33-45
 Roper SD, 12:329-53
 Rosbash M, 11:373-93
 Rose EA, 14:503-29
 Rosenfeld MG, 11:353-72;
 15:139-65
 Roses AD, 19:53-77
 Rothman SM, 13:171-82
 Rubin G, 17:373-97
 Rusak B, 13:387-401
- S
 Sanes JR, 12:491-516
 Sargent PB, 16:403-43
 Schacter DL, 16:159-82
 Scheller RH, 14:93-122
 Schlaggar BL, 17:419-39
 Schuman EM, 17:153-83
 Schwab ME, 16:565-95
 Schwarzschild MA, 12:415-61
 Segal RA, 19:463-89
 Sejnowski TJ, 18:409-41
 Self DW, 18:463-95
 Selkow DJ, 12:463-90; 17:489-517
 Silverston AI, 16:531-46
 Shatz CJ, 17:185-218
 Shaw SR, 14:9-38
 Sheinberg DL, 19:577-621
 Siegelbaum SA, 16:625-85;
 19:235-63
 Simpson L, 19:27-52
 Singer W, 18:555-86
 Skene JHP, 12:127-56
 Sladek JR Jr, 13:415-40
 Snipes GJ, 18:45-75
 Soechting JF, 15:167-91
 Soriano P, 18:1-18

- Sparks DL, 13:309-36
 Sporns O, 16:597-623
 Squire LR, 16:547-63
 Stein PSG, 16:207-22
 Steindler DA, 16:445-70
 Steinman L, 17:247-65
 Stoffers DA, 15:57-85
 Strittmatter WJ, 19:53-77
 Stuart DG, 11:199-223
 Sudhof TC, 17:219-46
 Sutcliffe JG, 11:157-98
 Suter U, 18:45-75
 Swanson L, 11:353-72
- T
 Takahashi JS, 18:531-53
 Tamura T, 14:201-17
 Tanaka C, 17:551-67
 Tanaka K, 19:109-39
 Tees RC, 15:377-402
 Tessier-Lavigne M, 18:497-529
 Thach WT, 15:403-42
 Thompson RF, 17:519-49
- U
 Tomaselli KJ, 14:531-70
 Tranell D, 13:89-109
 Treacy MN, 15:139-65
 Trimble WS, 14:93-122
 Tsien RY, 12:227-53
 Tuttle R, 17:419-39
- Udin SB, 11:289-327
 V
 Vallee RB, 14:59-92
 Viskochil D, 16:183-205
- W
 Walicke PA, 12:103-26
 Wallen P, 14:169-99
 Warchoł ME, 14:301-33
 Warren ST, 18:77-99
 Weeks JC, 13:183-94
 Wehner R, 13:403-14
 Weinberger NM, 18:129-58
- Werker JF, 15:377-402
 Wexler NS, 14:503-29
 White FJ, 19:405-36
 White R, 16:183-205
 Williams RW, 11:423-53
 Wise RA, 19:319-40
- Y
 Yancopoulos GD, 19:491-515
 Yau K-W, 12:289-327
 Yuen PST, 15:193-225
 Yurek DM, 13:415-40
- Z
 Zagotta WN, 19:235-63
 Zigmund RE, 12:415-61
 Zimmer A, 15:115-37
 Zipursky SL, 17:373-97
 Zola-Morgan S, 16:547-63;
 18:359-83
 Zucker RS, 12:13-31
 Zuker CS, 18:283-317



CHAPTER TITLES, VOLUMES 11-19

AUTONOMIC NERVOUS SYSTEM

The Chemical Neuroanatomy of Sympathetic Ganglia

L-G Elfgren, B Lindh, T Hökfelt 16:471-507

BASAL GANGLIA

Ion Channels in Vertebrate Glia

BA Barres, LLY Chun, DP Corey 13:441-74

CEREBRAL CORTEX

Development of Local Circuits in Mammalian Visual Cortex
The Role of NMDA Receptors in Information Processing
Inferior Temporal Cortex: Where Visual Perception Meets Memory
Localization of Brain Function: The Legacy of Franz Joseph Gall (1758-1828)
Visual Feature Integration and the Temporal Correlation Hypothesis
Inferotemporal Cortex and Object Vision

LC Katz, EM Callaway 15:31-56
NW Daw, PSG Stein, K Fox 16:207-22
Y Miyashita 16:245-63
S Zola-Morgan 18:359-83
W Singer, CM Gray 18:555-86
K Tanaka 19:109-39

CIRCADIAN AND OTHER RHYTHMS

Mutations and Molecules Influencing Biological Rhythms
Molecular Neurobiology and Genetics of Circadian Rhythms in Mammals

JC Hall, M Rosbash 11:373-93
JS Takahashi 18:531-53

CLINICAL NEUROSCIENCE

MPTP Toxicity: Implications for Research in Parkinson's Disease
Biochemistry of Altered Brain Proteins in Alzheimer's Disease
RNA and Protein Metabolism in the Aging Brain
Face Agnosia and the Neural Substances of Memory
The Role of Glutamate Neurotoxicity in Hypoxic-Ischemic Neuronal Death
Dopamine Cell Replacement: Parkinson's Disease
Molecular Approaches to Hereditary Diseases of the Nervous System: Huntington's Disease as a Paradigm
The Neurofibromatosis Type 1 Gene
The Epigenetics of Multiple Sclerosis: Clues to Etiology and a Rationale for Immune Theory
Normal and Abnormal Biology of the β -Amyloid Precursor Protein
Biology and Genetics of Hereditary Motor and Sensory Neuropathies
Triplet Repeat Expansion Mutations: The Example of Fragile X Syndrome
The Neurobiology of Infantile Autism

J Kopin, SP Markey 11:81-96
DJ Selkoe 12:463-90
CE Finch, DG Morgan 13:75-87
AR Damasio, D Tranel, H Damasio 13:89-109
DW Choi, SM Rothman 13:171-82
DM Yurek, JR Sladek Jr 13:415-40
NS Wexler, EA Rose, DE Housman 14:503-29
D Viaskochil, R White, R Cawthon 16:183-205
L Steinman, A Miller, CCA Bernard, JR Oksenberg 17:247-65
DJ Selkoe 17:489-517
U Suter, GJ Snipes 18:45-75
ST Warren, CT Ashley Jr 18:77-99
AL Ciaranello, RD Ciaranello 18:101-28

Molecular Mechanisms of Drug Reinforcement and Addiction	DW Self, EJ Nestler	18:463-495
Human Immunodeficiency Virus and the Brain	JD Glass, RT Johnson	19:1-26
Apolipoprotein E and Alzheimer's Disease	WJ Strittmatter, AD Roses	19:53-77
Trinucleotide Repeats in Neurogenetic Disorders	HL Paulson, KH Fischbeck	19:79-107
Sodium Channel Defects in Myotonia and Periodic Paralysis	SC Cannon	19:141-164
Addictive Drugs and Brain Stimulation Reward	RA Wise	19:319-40
COMPARATIVE NEUROSCIENCE		
Evolution in Nervous Systems	EA Arbas, IA Meinertzhagen, SR Shaw	14:9-38
Processing of Temporal Information in the Brain	CE Carr	16:223-43
Patterning the Brain of the Zebrafish Embryo	CB Kimmel	16:707-32
COMPUTATIONAL APPROACHES		
Behaviorally Based Modeling and Computational Approaches to Neuroscience	GN Reeke Jr, O Sporns	16:597-623
Computational Models of the Neural Bases of Learning and Memory	MA Gluck, R Granger	16:667-706
CYTOSKELETON AND AXONAL TRANSPORT		
Microtubule-Associated Proteins: Their Potential Role in Determining Neuronal Morphology	A Matus	11:29-44
Mechanisms of Fast and Slow Axonal Transport	RB Vallee, GS Bloom	14:59-92
Neuronal Polarity	AM Craig, G Banker	17:267-310
Neuronal Intermediate Filaments	MK Lee, DW Cleveland	19:187-217
DEVELOPMENTAL NEUROBIOLOGY		
Formation of Topographic Maps	SB Udin, JW Fawcett	11:289-327
The Control of Neuron Number	RW Williams, K Herrup	11:423-53
Novel Neurotrophic Factors, Receptors, and Oncogenes	PA Walicke	12:103-26
Axonal Growth-Associated Proteins	SJHP Skene	12:127-56
Ontogeny of the Somatosensory System: Origins and Early Development of Primary Sensory Neurons	AM Davies, A Lumsden	13:61-73
Patterned Activity, Synaptic Convergence, and the NMDA Receptor in Developing Visual Pathways	M Constantine-Paton, HT Cline, E Debski	13:129-54
Early Events in the Embryogenesis of the Vertebrate Visual System: Cellular Determination and Pathfinding	WA Harris, CE Holt	13:155-69
Postembryonic Neuronal Plasticity and Its Hormonal Control During Insect Metamorphosis	JC Weeks, RB Levine	13:183-94
Segmentation and Segmental Differentiation in the Development of the Central Nervous Systems of Leeches and Flies	M Levine, E Macagno	13:195-225
Carbohydrates and Carbohydrate-Binding Proteins in the Nervous System	TM Jessell, MA Hynes, J Dodd	13:227-55
The Generation of Neuronal Diversity in the Central Nervous System	SK McConnell	14:269-300
Cell Death During Development of the Nervous System	RW Oppenheim	14:453-501
The Biosynthesis of Neuropeptides: Peptide α-Amidation	BA Eipper, DA Stoffers, RE Mains,	15:57-85
Manipulating the Genome by Homologous Recombination in Embryonic Stem Cells	A Zimmer	15:115-37

Molecular Bases of Early Neural Development in <i>Xenopus</i> Embryos	C Kintner	15:251-84
Voltage-Sensitive Dyes and Functional Activity in the Olfactory Pathway	AR Cinelli, JS Kauer	15:321-51
The Role of the Amygdala in Fear and Anxiety	M Davis	15:353-75
Molecular Mechanisms of Developmental Neuronal Death	EM Johnson Jr, TL Deckwerth	16:31-46
Molecular Control of Cell Fate in the Neural Crest: The Sympathoadrenal Lineage	DJ Anderson	16:129-58
Inhibitors of Neurite Growth	ME Schwab, JP Kapfhammer, CE Bandelow	16:565-95
Development of Motoneuronal Phenotype	JS Eisen	17:1-30
<i>Hox</i> Genes and Regionalization of the Nervous System	R Keynes, R Krumlauf	17:109-32
The Subplate, a Transient Neocortical Structure: Its Role in the Development of Connections between Thalamus and Cortex	KL Allendoerfer, CJ Shatz	17:185-218
Determination of Neuronal Cell Fate: Lessons From the R7 Neuron of <i>Drosophila</i>	SL Zipursky, G Rubin	17:373-97
Specification of Neocortical Areas and Thalamocortical Connections	DDM O'Leary, BL Schlaggar, R Tuttle	17:419-39
Creating a Unified Representation of Visual and Auditory Space in the Brain	EJ Knudsen, MS Brainard	18:19-43
Isolation, Characterization, and Use of Stem Cells from the CNS	FH Gage, J Ray, LJ Fisher	18:159-92
Mechanisms of Neural Patterning and Specification in the Developing Cerebellum	ME Hatten, N Heintz	18:385-408
The Role of the Floor Plate in Axon Guidance Mechanisms and Molecules that Control Growth Cone Guidance	SA Colamarino, M Tessier-Lavigne	18:497-529
The <i>Drosophila</i> Neuromuscular Junction: A Model System for Studying Synaptic Development and Function	CS Goodman	19:341-77
H Keshishian, K Broadie, A Chiba, M Hata		19:545-75

GLIA, SCHWANN CELLS, AND EXTRACELLULAR MATRIX

Extracellular Matrix Molecules that Influence Neural Development	JR Sanes	12:491-516
The Macrogliial Cells of the Rat Optic Nerve	RH Miller, C ffrench-Constant, MC Raff	12:517-34
Extracellular Matrix Molecules and Their Receptors: Functions in Neural Development	LF Reichardt, KJ Tomaselli	14:531-70
Glia Boundaries in the Developing Nervous System	DA Steindler	16:445-70
The Early Reactions of Non-Neuronal Cells to Brain Injury	DMD Landis	17:133-51

ION CHANNELS

Adenosine 5'-Triphosphate-Sensitive Potassium Channels	FM Ashcroft	11:97-118
Modulation of Ion Channels in Neurons and Other Cells	IB Levitan	11:119-36
Probing the Molecular Structure of the Voltage-Dependent Sodium Channel	RL Barchi	11:455-95
Calcium Channels in Vertebrate Cells	P Hess	13:337-56
Ion Channels in Vertebrate Glia	BA Barres, LLY Chun, DP Corey	13:441-74
Molecular Basis for Ca^{2+} Channel Diversity	F Hofmann, M Biel, V Flockerzi	17:399-418
Direct G Protein Activation of Ion Channels?	DE Clapham	17:441-64
Structure and Function of Cyclic Nucleotide-Gated Channels	WN Zagotta, SA Siegelbaum	19:235-63

640 CHAPTER TITLES

LANGUAGE

Some Aspects of Language Processing Revealed Through the Analysis of Acquired Aphasia: The Lexical System	A Caramazza	11:395-421
Biological Foundations of Language: Clues from Sign Language	H Poizner, U Bellugi, ES Klima	13:283-307
The Processing of Single Words Studied with Positron Emission Tomography	SE Petersen, JA Fiez	16:509-30

LEARNING AND MEMORY

Topography of Cognition: Parallel Distributed Networks in Primate Association Cortex	PS Goldman-Rakic	11:137-56
Behavioral Studies of Pavlovian Conditioning	RA Rescorla	11:329-52
Involvement of Hormonal and Neuromodulatory Systems in the Regulation of Memory Storage	JL McGaugh	12:255-87
Hebbian Synapses: Biophysical Mechanisms and Algorithms	TH Brown, EW Kairiss, CL Keenan	13:475-511
The Organization and Reorganization of Human Speech Perception	JF Werker, RC Tees	15:377-402
Implicit Memory: A Selective Review	DL Schacter, C-YP Chiu, KN Ochsner	16:159-82
Neuroanatomy of Memory	S Zola-Morgan, LR Squire	16:547-63
Organization of Memory Traces in the Mammalian Brain	RF Thompson, DJ Krupa	17:519-49
Learning and Memory in Honeybees: From Behavior to Neural Substrates	R Menzel, U Müller	19:379-404

MOLECULAR NEUROSCIENCE

mRNA in the Mammalian Central Nervous System	JG Sutcliffe	11:157-98
Transgenic Mice: Applications to the Study of the Nervous System	MG Rosenfeld, EB Crenshaw III, SA Lira, L Swanson, E Borrelli, R Heyman, RM Evans	11:353-72
RNA and Protein Metabolism in the Aging Brain	CE Finch, DG Morgan	13:75-87
Regulation of Neuropeptide Gene Expression	RH Goodman	13:111-27
Stimulus-Transcription Coupling in the Nervous System: Involvement of the Inducible Proto-Oncogenes <i>fos</i> and <i>jun</i>	JJ Morgan, T Curran	14:421-51
Neurotransmitter Transporters: Recent Progress	SG Amara, MJ Kuhar	16:73-93
Molecular Basis of Neural-Specific Gene Expression	G Mandel, D McKinnon	16:323-45
Prion Diseases and Neurodegeneration	SB Prusiner, SJ DeArmond	17:311-39
The Protein Kinase C Family for Neuronal Signaling	C Tanaka, Y Nishizuka	17:551-67
Functional Interactions of Neurotrophins and Neurotrophin Receptors	M Biotwell	18:223-53
The Role of Agrin in Synapse Formation	MA Bowe, JR Fallon	18:443-62
RNA Editing	L Simpson, RB Emeson	19:27-52
Physiology of the Neurotrophins	GR Lewin, Y-A Barde	19:289-317
Intracellular Signaling Pathways Activated by Neurotrophic Factors	RA Segal, ME Greenberg	19:463-89
The Neurotrophins and CNTF: Two Families of Collaborative Neurotrophic Factors	NY Ip, GD Yancopoulos	19:491-515

MOTOR SYSTEMS

Animal Solutions to Problems of Movement Control: The Role of Proprioceptors	Z Hasan, DG Stuart	11:199-223
Integrating with Neurons	DA Robinson	12:33-45
Learning Arm Kinematics and Dynamics	CG Atkeson	12:157-83
Signal Transformations Required for the Generation of Saccadic Eye Movements	DL Sparks, LE Mays	13:309-36

CHAPTER TITLES 641

HIGHER ORDER MOTOR CONTROL		
Moving in Three-Dimensional Space: Frames of Reference, Vectors, and Coordinate Systems	AP Georgopoulos	14:361-77
The Neostriatal Mosaic: Multiple Levels of Compartmental Organization in the Basal Ganglia	JF Soechting, M Flanders	15:167-91
Cerebellum and Adaptive Coordination of Movement	CR Gerfen	15:285-320
The Anatomy and Physiology of Primate Neurons that Control Rapid Eye Movements	WT Thach, HG Goodkin, JG Keating	15:403-42
Learning and Memory in the Vestibulo-Ocular Reflex	AK Moschovakis, SM Highstein	17:465-88
S du Lac, JL Raymond, TJ Sejnowski, SG Lisberger	S du Lac, JL Raymond, TJ Sejnowski, SG Lisberger	18:409-41
MYELIN		
Structure and Function of Myelin Protein Genes	K Mikoshiba, H Okano, T Tamura, K Ikenaka	14:201-17
NEURAL MEMBRANES		
Protein Targeting in the Neuron	RB Kelly, E Grote	16:95-127
NEURAL NETWORKS		
Emerging Principles Governing the Operation of Neural Networks	PA Getting	12:185-204
Perceptual Neural Organization: Some Approaches Based on Network Models and Information Theory	R Linsker	13:257-81
Modulation of Neural Networks for Behavior	RM Harris-Warrick, E Marder	14:39-57
Neuronal Network Generating Locomotor Behavior in Lamprey: Circuitry, Transmitters, Membrane Properties, and Simulation	S Grillner, P Wallen, L Brodin, A Lansner	14:169-99
Modeling of Neural Circuits: What Have We Learned?	AI Silverston	16:531-46
Neuromorphic Analogue VLSI	R Douglas, M Mahowald, C Mead	18:255-81
NEUROETHOLOGY		
Sexually Dimorphic Behaviors	DB Kelley	11:225-51
Neuroethology of Electric Communication	CD Hopkins	11:497-535
Startle, Categorical Response, and Attention in Acoustic Behavior of Insects	RR Hoy	12:355-75
Do Insects Have Cognitive Maps?	R Wehner, R Menzel	13:403-14
The Neural Basis of Behavior: A Neuroethological View	W Heiligenberg	14:247-67
NEUROGENETICS		
Mutations and Molecules Influencing Biological Rhythms	JC Hall, M Rosbash	11:373-93
Neurogenetic Dissection of Learning and Short-Term Memory in <i>Drosophila</i>	Y Dudai	11:537-63
Genetic and Molecular Bases of Neurogenesis in <i>Drosophila melanogaster</i>	JA Campos-Ortega, YN Jan	14:399-420
Genetic and Cellular Analysis of Behavior in <i>C. elegans</i>	CI Bargman	16:47-71
Gene Targeting in ES Cells	P Soriano	18:1-18
NEURONAL PLASTICITY		
Short-Term Synaptic Plasticity	RS Zucker	12:13-31
Long-Term Depression	M Ito	12:85-102
Plasticity of Sensory and Motor Maps in Adult Mammals	JH Kaas	14:137-67

642 CHAPTER TITLES

Mechanisms Underlying Long-Term Potentiation of Synaptic Transmission Learning to Modulate Transmitter Release: Themes and Variations in Synaptic Plasticity	DV Madison, RC Malenka, RA Nicoll	14:379-97
Dynamic Regulation of Receptive Fields and Maps in the Adult Sensory Cortex	RD Hawkins, ER Kandel, SA Siegelbaum	16:625-65
Long-Term Synaptic Depression	NM Weinberger	18:129-58
Active Properties of Neuronal Dendrites	DJ Linden, JA Connor D Johnston, JC Magee, CM Colbert, BR Christie	18:319-57 19:165-86
NEUROPEPTIDES		
Tachykinins	JE Maggio	11:13-28
Acute Regulation of Tyrosine Hydroxylase by Nerve Activity and by Neurotransmitters via Phosphorylation	RE Zigmund, MA Schwarzschild, AR Rittenhouse	12:415-61
NEUROSCIENCE TECHNIQUES		
Immortalization of Neural Cells via Retrovirus-Mediated Oncogene Transduction	CL Cepko	12:47-65
Fluorescent Probes of Cell Signaling	RY Tsien	12:227-53
Spider Toxin: Recent Applications in Neurobiology	H Jackson, TN Parks	12:405-14
Common Principles of Motor Control in Vertebrates and Invertebrates	KG Pearson	16:265-97
Gene Transfer to Neurons Using Herpes Simplex Virus-Based Vectors	DJ Fink, NA DeLuca, WF Goins, JC Gioroso	19:265-87
OLFACTION/TASTE		
The Cell Biology of Vertebrate Taste Receptors A Neural Model for Conditioned Taste Aversions	SD Roper	12:329-53
Information Coding in the Vertebrate Olfactory System	KC Chambers	13:373-85
	LB Buck	19:517-44
PREFATORY CHAPTER		
Looking Back, Looking Forward	TP Feng	11:1-12
The Journey of a Neuroembryologist	V Hamburger	12:1-12
Chemosensory Physiology in an Age of Transition	VG Dethier	13:1-13
The Mechanical Mind	H Barlow	13:15-24
Are We Willing to Fight for Our Research? Integrative Systems Research on the Brain: Resurgence and New Opportunities	DH Hubel	14:1-8
	TH Bullock	16:1-15
RECEPTORS AND RECEPTOR SUBTYPES		
5-Hydroxytryptamine Receptor Subtypes Structure of the Adrenergic and Related Structures	SJ Peroutka	11:45-60
Peripheral Nerve Regeneration Mammalian Tachykinin Receptors Molecular Biology of Serotonin Receptors Adrenergic Receptors as Models for G Protein-Coupled Receptors Expression of a Family of Pou-Domain Protein Regulatory Genes During Development of the Central Nervous System Guanylyl Cyclase-Linked Receptors Recent Advances in the Molecular Biology of Dopamine Receptors	BF O'Dowd, RJ Lefkowitz, MG Caron JW Fawcett, RJ Keynes S Nakanishi D Julius B Kobilka MN Treacy, MG Rosenfeld PST Yuen, DL Garbers JA Gingrich, MG Caron	12:67-83 13:43-60 14:123-36 14:335-60 15:87-114 15:139-65 15:193-225 16:299-321

Regulation of Ion Channel Distribution at Synapses	SC Froehner	16:347-68
The Diversity of Neuronal Nicotinic Acetylcholine Receptors	PB Sargent	16:403-43
Cloned Glutamate Receptors	M Hollmann, S Heinemann	17:31-108
GABA_A Receptor Channels	RL Macdonald, RW Olsen	17:569-602
SOMATOSENSORY SYSTEM		
Neuroethology of Electric Communication	CD Hopkins	11:497-535
The Evolution of the Eyes	MF Land, RD Fernald	15:1-29
Neural Mechanisms of Tactual Form and Texture Perception	KO Johnson, SS Hsiao	15:227-50
SYNAPSES		
Cellular and Molecular Biology of the Presynaptic Nerve Terminal	M Linial, WS Trimble, RH Scheller	14:93-122
Transsynaptic Control of Gene Expression	RC Armstrong, MR Montminy	16:17-29
Synaptic Vesicles and Exocytosis	R Jahn, TC Sudhof	17:216-46
Dendritic Spines: Cellular Specializations Imparting Both Stability and Flexibility to Synaptic Function	K Harris, SB Kater	17:341-71
Neurotransmitter Release	G Matthews	19:219-33
Long-Term Depression in Hippocampus	MF Bear, WC Abraham	19:437-62
Synaptic Regulation of Mesocorticolimbic Dopamine Neurons	FJ White	19:405-36
TRANSMITTER BIOCHEMISTRY		
Excitatory Amino Acid Neurotransmission: NMDA Receptors and Hebb-Type Synaptic Plasticity	CW Cotman, DT Monaghan, AH Ganong	11:61-80
The Role of Glutamate Neurotoxicity in Hypoxic-Ischemic Neuronal Death	DW Choi, SM Rothman	13:171-82
Neurotransmitters in the Mammalian Circadian System	B Rusak, KG Bina	13:387-401
Neurotransmitters in Nociceptive Modulatory Circuits	HL Fields, MM Heinricher, P Mason	14:219-45
Nitric Oxide and Synaptic Function	EM Schuman, DV Madison	17:153-83
VISION AND HEARING		
The Attention System of the Human Brain	MI Posner, SE Petersen	13:25-42
Signal Transformations Required for the Generation of Saccadic Eye Movements	DL Sparks, LE Mays	13:309-36
Cochlear Prosthetics	GE Loeb	13:357-71
Auditory Hair Cells: Structure, Function, Development, and Regeneration	JT Corwin, ME Warchol	14:301-33
VISUAL SYSTEM		
Anatomical Organization of Macaque Monkey Striate Visual Cortex	JS Lund	11:253-88
Integrating with Neurons	DA Robinson	12:33-45
The Function of Synaptic Transmitters in the Retina	NW Daw, WJ Brunken, D Parkinson	12:205-25
Cyclic GMP-Activated Conductance of Retinal Photoreceptor Cells	K-W Yau, DA Baylor	12:289-327
Visual and Eye Movement Functions of the Posterior Parietal Cortex	RA Andersen	12:377-403
The Macrogliial Cells of the Rat Optic Nerve	RH Miller, C french-Constant, MC Raft	12:517-34
How Parallel Are the Primate Visual Pathways?	WH Mieran, JHR Maunsell	16:369-402

644 CHAPTER TITLES

Neural Mechanisms of Selective Visual Attention	R Desimone, J Duncan	18:193-222
Signal Transduction in <i>Drosophila</i> Photoreceptors	R Ranganathan, DM Malicki, CS Zuker	18:283-317
Visual Object Recognition	NK Logothetis, DL Sheinberg	19:577-621

